

L-Cysteine	0.8
L-Glutamate	2.1
L-Glutamine	0.7
Glycine	2.7
L-Histidine	0.3
L-Isoleucine	0.8
L-Leucine	0.8
L-Lysine-HCl	1.4
L-Methionine	0.7
L-Phenylalanine	1.2
L-Proline	2.6
L-Serine	2.9
L-Threonine	1.7
L-Tryptophan	0.5
L-Tyrosine	0.3
L-Valine	0.9
K ₂ SO ₄	0.28 ^a
KH ₂ PO ₄ /K ₂ HPO ₄	4/6
Na-acetate	15
CaCl ₂	0.0005 ^a
MgCl ₂	0.52 ^a
FeSO ₄	0.01 ^a
Vitamins ^b	+
Micronutrients ^{a,c}	+
Citric acid	0.1

^a From Neidhardt et al. J. Bacteriol. **119**:736-747;

^b Vitamins: 0.4 μM biotin, 10 μM pyridoxal-HCl, 2.3 μM folic acid, 2.6 μM riboflavin, 8 μM niacinamide, 3 μM thiamine-HCl and 2 μM pantothenate;

^c Micronutrients: 0.003 μM (NH₄)₆(MO₇)₂₄, 0.4 μM H₃BO₄, 0.03 μM CoCl₂, 0.01 μM CuSO₄, 0.08 μM MnCl₂ and 0.01 μM ZnSO₄.

Please add new claims 25-29 as follows:

--25. (new) A method according to claim 12 wherein the chemically defined medium is the medium comprising:

Component	Concentration, mM or +/-
L-Alanine	3.4
L-Arginine	1.1
L-Asparagine	0.8
L-Cysteine	0.8
L-Glutamate	2.1
L-Glutamine	0.7
Glycine	2.7

L-Histidine	0.3
L-Isoleucine	0.8
L-Leucine	0.8
L-Lysine-HCl	1.4
L-Methionine	0.7
L-Phenylalanine	1.2
L-Proline	2.6
L-Serine	2.9
L-Threonine	1.7
L-Tryptophan	0.5
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K ₂ SO ₄	0.28 ^a
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Na-acetate	15
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MgCl ₂	0.52 ^a
FeSO ₄	0.01 ^a
Vitamins ^b	+
Micronutrients ^{a,c}	+
Citric acid	0.1

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^b Vitamins: 0.4 μM biotin, 10 μM pyridoxal-HCl, 2.3 μM folic acid, 2.6 μM riboflavin, 8 μM niacinamide, 3 μM thiamine-HCl and 2 μM pantothenate;

^c Micronutrients: 0.003 μM (NH₄)₆(Mo₇)₂₄, 0.4 μM H₃BO₄, 0.03 μM CoCl₂, 0.01 μM CuSO₄, 0.08 μM MnCl₂ and 0.01 μM ZnSO₄;

wherein the components of said chemically defined medium are present in three-fold amounts of the enumerated concentrations, except the phosphates and sodium acetate, the respective amounts of which are kept at the enumerated concentrations.

26. (new) A method according to claim 12 wherein the chemically defined medium is the medium comprising:

Component	Concentration, mM or +/-
L-Alanine	3.4
L-Arginine	1.1
L-Asparagine	0.8
L-Cysteine	0.8
L-Glutamate	2.1
L-Glutamine	0.7
Glycine	2.7
L-Histidine	0.3

L-Isoleucine	0.8
L-Leucine	0.8
L-Lysine-HCl	1.4
L-Methionine	0.7
L-Phenylalanine	1.2
L-Proline	2.6
L-Serine	2.9
L-Threonine	1.7
L-Tryptophan	0.5
L-Tyrosine	0.3
L-Valine	0.9
K ₂ SO ₄	0.28 ^a
KH ₂ PO ₄ /K ₂ HPO ₄	4/6
Na-acetate	15
CaCl ₂	0.0005 ^a
MgCl ₂	0.52 ^a
FeSO ₄	0.01 ^a
Vitamins ^b	+
Micronutrients ^{a,c}	+
Citric acid	0.1

^a From Neidhardt et al. J. Bacteriol. **119**:736-747;

^b Vitamins: 0.4 μM biotin, 10 μM pyridoxal-HCl, 2.3 μM folic acid, 2.6 μM riboflavin, 8 μM niacinamide, 3 μM thiamine-HCl and 2 μM pantothenate;

^c Micronutrients: 0.003 μM (NH₄)₆(MoO₇)₂₄, 0.4 μM H₃BO₄, 0.03 μM CoCl₂, 0.01 μM CuSO₄, 0.08 μM MnCl₂ and 0.01 μM ZnSO₄;

wherein the components of said chemically defined medium are present in five-fold amounts of the enumerated concentrations, except the phosphates and sodium acetate, the respective amounts of which are kept at the enumerated concentrations.

27. (new) A method according to claim 12 wherein the chemically defined medium is the medium comprising:

Component	Concentration, mM or +/-
L-Alanine	3.4
L-Arginine	1.1
L-Asparagine	0.8
L-Cysteine	0.8
L-Glutamate	2.1
L-Glutamine	0.7
Glycine	2.7
L-Histidine	0.3
L-Isoleucine	0.8

L-Leucine	0.8
L-Lysine-HCl	1.4
L-Methionine	0.7
L-Phenylalanine	1.2
L-Proline	2.6
L-Serine	2.9
L-Threonine	1.7
L-Tryptophan	0.5
L-Tyrosine	0.3
L-Valine	0.9
K ₂ SO ₄	0.28 ^a
KH ₂ PO ₄ /K ₂ HPO ₄	4/6
Na-acetate	15
CaCl ₂	0.0005 ^a
MgCl ₂	0.52 ^a
FeSO ₄	0.01 ^a
Vitamins ^b	+
Micronutrients ^{a,c}	+
Citric acid	0.1

^a From Neidhardt et al. J. Bacteriol. **119**:736-747;

^b Vitamins: 0.4 μ M biotin, 10 μ M pyridoxal-HCl, 2.3 μ M folic acid, 2.6 μ M riboflavin, 8 μ M niacinamide, 3 μ M thiamine-HCl and 2 μ M pantothenate;

^c Micronutrients: 0.003 μ M (NH₄)₆(MO₇)₂₄, 0.4 μ M H₃BO₄, 0.03 μ M CoCl₂, 0.01 μ M CuSO₄, 0.08 μ M MnCl₂ and 0.01 μ M ZnSO₄;

wherein glucose is additionally included in the chemically defined medium in an amount in the range of 1-100 g/L.

28. (new) A method according to claim 12 wherein the chemically defined medium is the medium comprising:

Component	Concentration, mM or +/-
L-Alanine	3.4
L-Arginine	1.1
L-Asparagine	0.8
L-Cysteine	0.8
L-Glutamate	2.1
L-Glutamine	0.7
Glycine	2.7
L-Histidine	0.3
L-Isoleucine	0.8
L-Leucine	0.8
L-Lysine-HCl	1.4

L-Methionine	0.7
L-Phenylalanine	1.2
L-Proline	2.6
L-Serine	2.9
L-Threonine	1.7
L-Tryptophan	0.5
L-Tyrosine	0.3
L-Valine	0.9
K ₂ SO ₄	0.28 ^a
KH ₂ PO ₄ /K ₂ HPO ₄	4/6
Na-acetate	15
CaCl ₂	0.0005 ^a
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FeSO ₄	0.01 ^a
Vitamins ^b	+
Micronutrients ^{a,c}	+
Citric acid	0.1

^a From Neidhardt et al. J. Bacteriol. **119**:736-747;

^b Vitamins: 0.4 μM biotin, 10 μM pyridoxal-HCl, 2.3 μM folic acid, 2.6 μM riboflavin, 8 μM niacinamide, 3 μM thiamine-HCl and 2 μM pantothenate;

^c Micronutrients: 0.003 μM (NH₄)₆(MO₇)₂₄, 0.4 μM H₃BO₄, 0.03 μM CoCl₂, 0.01 μM CuSO₄, 0.08 μM MnCl₂ and 0.01 μM ZnSO₄;

wherein glucose is additionally included in the chemically defined medium in an amount in the range of 1-100 g/L, and the components of said chemically defined medium are present in three-fold amounts of the enumerated concentrations, except the phosphates and sodium acetate, the respective amounts of which are kept at the enumerated concentrations.

29. (new) A method according to claim 12 wherein the chemically defined medium is the medium comprising:

Component	Concentration, mM or +/-
L-Alanine	3.4
L-Arginine	1.1
L-Asparagine	0.8
L-Cysteine	0.8
L-Glutamate	2.1
L-Glutamine	0.7
Glycine	2.7
L-Histidine	0.3
L-Isoleucine	0.8
L-Leucine	0.8
L-Lysine-HCl	1.4